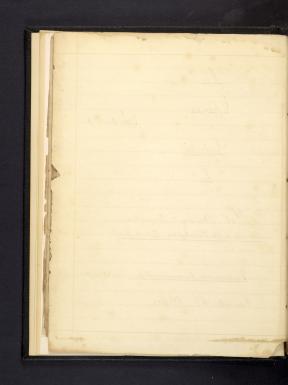
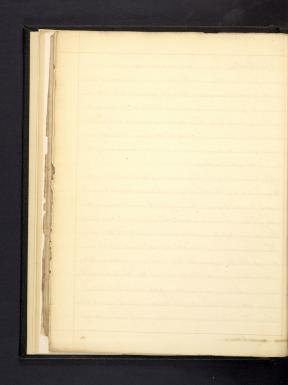
2021 Ch Mn. hadache Epayon (haprid) Scorbutus. Lot Bensen of Pennsylvania. Mumber of the Philadophia Medical Society. Whatsower man be sound or sealled . Tice XXI. 1.20. Acumber 6th AD 1824.



Scorbusture, is a fermitable and often Jotal arone, arising from imperfect autiblier, and other causes, and showetening their a vigility by extreme dispersion of the votal process together with open-squip of the genes, exclusioned, or people blotcher, on the skin and executances beamonings. Then its frequent convenue is long agong it is remotioned clumped amplitude of the sound and enterine of the mans freeding to the end of the malist writers.

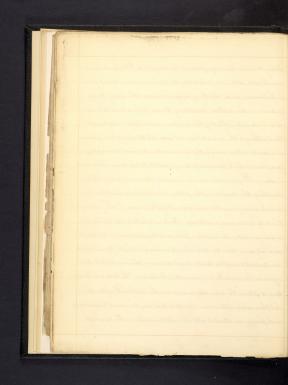
After having statut this built character of the sistens it may be surpey to semonts, that the source is made use encounty and assembly, and in popular language; being applied to evenely and element of the share, although assument their effected character and popularing nothing so common with the time source. The share and popularing not intend the and of the the time source, and the time source of the best of the property of the smalled of sangularing, like other cogness of the best, in the property of the smalled of and that decomposed it telestly different from the inflammating sand that decomposed it telestly different from the inflammating sand that decomposed it telestly different from the inflammating seconds.



nominclature, but because a great practical over result from it; namely, the administration of antiscorbutic remedies in these outaneous disorders, which cannot be oured, and often aggravated by them. The scurry property so called, was first accurately described, and received it name in medican times; and it is subject of dispute, as in the case of some other diseases, whether it was benown to the ancient physicians, or is a mulady of more recent engine. The first of weifice accounts of the disease appeared in the early part of the sexteen the centing, when the name of the maludy seems to have been Jamiliar among the outgar: but the symptoms were noticed by the early voyages in the presenting century; for considerably more than half the crew, who accompanied Nasco de Sama, in his voyage around the Cape of Seed Hope, in the year 1497, were destroyed by this disrose. Claus Magnus in his history of the nothern nations, published in the year 1555, has described the disat considerable length, and states that it was known to the inhabitants of Jaxony by the name of Schorbuk, whence the Latin term scorbutus, and our appellation soung . The torm signified seremouth , and was probably applied to the desease in consequence of the springy ulconations of the gums, with homorrhages, and leavening of the with, which are



among the more severe symptoms of the complaint. Do Lind, however, suggests with still more probability, that the name was derived from a Tolaronic word, Scorb, signifying disease; the sourcy being endance in the nothern countries of Europe, from whence the name was borrowed . Most of the European writers have maintained that, although the ancients have not described the symptoms of source, as a single distinct diseare, they have mentioned several concurring symptoms, which can searcely be supposed to belong to any other make - ady . Dippocrates was an accurate observer of diseases, when describing the deserves of the splun, mentions some symptoms which accompany the enlargement of that organ. "The colour of the body is changed, and becomes black and pulled, like the rind of a promogranate; the breath is fetil, and the gums emit a bad smell, and fall away from the tath, elecrations break out in the legs, the timber are emaciated and the bowls do not discharge their content;" chul again in his second book of prognostics, he observes, "In there who have tuncid spleens, the gums one diseased, and the mouth enits a felial odour; but those whose explains are enlarged, without any consequent hemorkages, such present are attacked with ill conditioned aloves in the logs, and



.

black sears" Here we have an additional symptom of seury mentioned, viv, the homomhages which were emitted in the former description. At another time he mentions the symptoms of the (EINE 03 With arrays) or bloody cline disease, in nearly the same terms. This desease begins in the autumn, and exhibits the following sympe toms. The mouth and toth omit a fetid smell, and the gums seper--ate from the tatter, and blood flows from the non; sometimes alrowlers break out in the legs, and while some of them heal, others break out a pert; and the skin about them is of a black colour, thin, and tender" This may be deemed a good brief description of source, considering the early age in which it was written, and the state of the seiner of physic ab that time. Celsus when treating of the affections of the spleen, mentions this indisposition of uleurs to head. "Mound and omnino non savescunt, aut certe civatricom vix recipiunt." Paules Eginata and Avienna as well as other South and Arabian physicians, describe the Same scorbetic symptoms as connected with tunid splan, but such an clargement is not always tresont, and it is probable that Reppecrates and the ancients who saw the discore but whiten, had generalized too hastily from a limited experience, when they prenounced these symptoms as exclusively

connected with enlarged flun. A design is also montioned by Strate and Pliny as occurring in the Roman armies infracticulars vituations, which can only be referred to seury. In this disease, which Pling ascribed to drinking the water of a certain well, when it occurred in the army of Germanicus while encamped near the Thin, an affection of the gums, with a falling out of the teeth, is said to have been combined with a left of munular proces in the lower extremities; he also makes mention of a certain horb called Britannica, which proved very serviceable in the cure of said disease, and from the description given of it, it is generally believed to be the plant which is very well known tous, by the popular name of securny- grafs and Cochleania Officinalis of Ginnews. On the whole , there fore , we are disposed to believe , with the early writers repor this subject, that the soung was known to the Loute, Roman, and Anatian physicians; although from its comparative unfrequency in Southern climate, it this not occur so often, or so extensively, as to claim their attention very strongly. That it may occur in any climate where there is a dearth of fresh Good, is very obvious; for it is found equally at sea and on the land, in breen - land orin the great South see in beinged towns, in freen countries, and in ships, where fresh food is not to be obtained .

Symptoms.

The first indication of the approach of seeing is an aversion trangerest of muscular section; a laxings or strong inclination to sit still or lie in bed; which is accompanied with a spontaneous lafetude, or a secure of heavings and pain throughout the body, and especially in the muscles of the limbs and leins, like that which wrises from great fatigue, which seen becomes actual fulloups, so that the least exercise, especially in ascending or descending a declivity, induces fulique and shortings of breath. With this aversion to motion and diminished power of exertion, there is also very early achange of the complexion, which becomes pale and bleated, or sallow, especially about the lips and corners of the eyes, where there is a greenish tinge. These two symptoms, indeed, the disinclination to exertion, and the sallow countinance, often portent the approach of searny; while the proteent cuts and drinks heartily, and seems otherwise in good health; and the sheety basilists and difficulty of breathing upon motion, are among the most constant concernitants of the distingur throughout its course, who the disease advances, other symp--tons oppear. Among these on the stomaver or morbid condition of the mouth, is one of the first that presents itself. The gums become hot and painful, and soon swell, growing seft and sprongy, of a livid bene, and afterwards extremely pented

covert Jungens, constituting one of the much destinguished Jutines of the dearness. This consisses great fater of the benth, and the beausing of the texth, soluble become mornable in this or suchet, and may be taken out without Jene and pain, and counfull and prostaneously. Hereardings also take place Jene the slighted prefere on the geomet, over an inthust any apparent comes, no tall as Jun the new, and estimately Jene the past of the buty, when the cuticle is delicate, or the confere behav, or consequence of the apparent life of colories in the volute, and aspeciatly in the consequence of the apparent life

Seem this cause the chir also whistey seem of the meet staking characters within from the patients of a wast black bure, of carriers wires, from the patients of a wast, black properly, and black bure, of caviness wires, from the patients, or just like flow lites to ke most returned exclusions of the view of a hund breadth, or larger, such as are produced by the secures brains. Then appear chiefly on the larger and things ; und secured by the secures the wones, bread, and terests of the best of and continued to the larger and repetitive of the world for for the larger and for filling consist in fact of officers of black sentents the well of fact the larger and life of chesical model the well to be the times and for the well the well to be the times with the well to be the larger expected by from the well the larger expected by from



the new, gums, stomuch, bewels, lungs, kidnics, and bladeter, and from the alow and Jungow excremences which wise on the surface. In some patients, the homonhages from the bourt are accompanied by vecer pairs and diarrhoa; while other without either a purging or gripes discharge great quantities of pure blood by the anus. Other marks of laxity appearin the adematous swelling which takes place in the logs, beginning first about the feet and autile; which, however, is more painful than common and -varew; and retain longer the impression of the Jinger. They appear nemark--ably also, in the great facility with which the elightest busies and wounds degenerate into four Jungous uleurs, as well as in the speculaneous appearance of ouch uleurs, and the breaking out of long healed sores, and even the discurion of old fractiones in bones. " Whatever farmer complainty" De Lind observes, "The patient has had, especially brieses, secund; Se; or whatever present disorders he labours under, upon being afflicted with the venny, This old complaints are removed, and his present rendered some? Indud the seury often first shows itself by the changes in diseased parts. Thus when a power has had a preceding fever, or a tedious sictore ps, by which he has been reuch exhausted, the gums for the most part are first affected, and a lassitude constantly attends: whenas when one has been confined



from covered by having a fractured bone, or from a bruin, or hurt, these weak and debilitated parts become almost always first perbutic. As for example, if a patient labours under a strain of the ankle; the ly, by becoming swelled and painful, and soon after covered with livid spots, gives the first indication of the disease. And as old uleus on the legs are very frequent among seamen, in this case believin the ligs are always first affected, and these when put on a scorbutic appearance, although the patient sums etherine perfectly healthy, and forsewers a fresh and good clear in his face". The effect of the disease upon former maladies is strongly defected by the author of lord Anson's orgage . But a most extraordinary circumstance , and what would be searcely credible upon any single winderer, is that the sears of wounds which had been for many years healed, were forced open again by this virwent distingur. Of this there was a remarkable instance in one of the invalids on board the Gentierion, who had been wounded above fifty yours before at the battle of the Boyne; for though he was cured soon after, and had centineed well for a great number of years part, yet on his being attented by the source, his wounds in the progress of his disease, broke out a fresh, and appeared arif the had never been healed. Any, what is still more astonishing, the callus of a broken bow, which had been completely formed for

a long time, was found to be hereby dispelsed, and the Jeacture summed as if it had never been consolidated. The ulus schick comment in the ligs of the schoolide patients on this occasion are said to have been of the sense had alterted with settin been and sinch a lexiciance of Jungent flick as spelited to no sensety.

The edges of these secretic also and a lived orlear, and prefed up with Jungous everes exinces, which are not inafetly called by the witers, bullock's liver, since to this substance, when boiled Do. Sind says, they bear a near resemblance, both in consistence and edour. They often win in the course of a night to a moustrous size, and although destroyed by courties, or the beni fe Ein which last can a copiew bledding commonly ennest an found at the next drefring as longe as ever, D'Lind affirms, however, that "they continue in this condition a considerable time without lainting the bone? These peopletic uleus, which an singular and winform in their character, an distinguished from all others by being veremackably offensive, bloody, and Jungous . In addition to these affections of the lower extremities, in the advanced stage of the seawy. "the patients most commonly low the use of their limbs, having a contraction of the tendons in the ham, with a walling and pain in the joint of the Sence . Indeed, a stiffnet in then tendons, and a weakness of the Sences,

appear fully early in this disease, generally terminating in a centracted and welled joint!

In the progrep of the veury, the patients commenty complain of pains which are often moving from part to part. Some complain of a general hain in their bones, which is most violent in the limbs and loins, and expecially in their joint; and legs; and a pain with tightness and of profice in the breast, is very common. The head is seldom or never affected, until the patient is Geverish, which is unusual; for as D' Lind well observes, the dision is altogether of a chronic nature, and fever may be justly neckound among its adventitious symptoms. His remarkable, indeed, that in the weest stages of the seway with all the severe symptoms above described, with painful spreading where of the surface, with contracted limbs, humonhages, spongy, pentrid, stinking gums, over run with sprouting flick, and often duply ulwrated; with inability to make the least muscular curtion, without fainting or prechaps dying; get the patients, even in this stage have a good apportite, with their sense entire, and , although easily dejected and made les spirited, yet, when in bed, they make no complaint of pain or sickness, and appear to be in tebrable health. This singular characteristic of the disease is well deficted by the author of land Anson's royage before

quoted . Indud, the effects of this disease, were in almost every instance wonderful; for many of our people, though confined to their hammocks, appeared to have no inconsiderable share of health; for they ate and drank heartily, were cheroful and talked with much suming vigour, and with a loud strong tone of wrice; and , get on their being the least moved, though it was only from one part of the ship to the other, and that in their hammone, they have immediately expired; and thus, who have confided in their suming strongth, and have used to get out of their ham mocks, have died before they could well reach the deck. And it was no uncommon thing for then who were able to walk the deck, and to do some heined of duty, to drop down dead in an instant, on any endeavours to ach with their estmost vegour; many of our people having prinched in this manner during the course of this voyage? Post Mortem Examination

It I but has given the result of his observations, denored from the differlies of a considerable number of antims to this Jutal mulasty, from which it appears that the true sembertic state, in an advanced staye of the deswase, consider in numbers) effections of blood into the alluturins desires of mode facts of the buty, when final associal as internal, purticalarly theyeums and

the blant copiets, or through a halant extremities. A tropical indisperision especially in the lugs and brood, road frequently but metalicage obsercions, who which the bound of the bound and the barrantinan was sometimes

word in the subjects that were opened, and the personalism was sometimes Grand distincted with water.

The Jesis blibes was found a extremely be and tender, and the beller of the smooth of the legisland thinghe so stuffed with the offend sugnating bleed, that it was always defficiely and some times emperiell, traine as upments on much from another. He was that the quantity of the offend bleed was among in some bedsets seemed that the quantity of the fact of the

while may had surper from the repet; and it often buy in large conventions on the presentance, and in come for instances under this membrane imme-

diality on lie bone. Ind yet, netwithstanding this dipolant and depressed state of the extremal fleshy poets, the boain always appeared purfeely second,

and the vinera of the abdomen, as well as there in the thome, some in

general found quite uncorrespeted. There were spely indeed, from extrava-- sated blood, observed on the mesentery , intestines , stomach , and omentum; but these spets were firm, and for from any mortified taint, and more than one, an effusion of blood, as large as a hands broadth, has been sun on the surface of the stomach; and what was remarkable, that very subject was not known, while living, to have made any complaint of sickness, pain or other deserter, in either stomach or bounds. M. Poupart in his account of the disean, as observed at the Geospital of St. Louis at Paris, har given a very ample description of the difsections of scorbetic patients. The principal behonomena described by him were the results of the general extravasation of blood, and of the dissolution and separation of party naturally united. Thus the bodies of the museles were often Gound swelled and hard, from the blood fixed among their files, so that the limbs remained bent or contracted; and the spip hyper of the lones even found separated, the cartilages of the steenum were loosened from their wien with the bony part of the ribs, and the ligaments of the joints were corrected and loose. He adds that the Musentine glands were generally obstructed and enlarged, and the spleen there times beggar than natural, and fell to prices as if it consisted of coog-- whated blood .

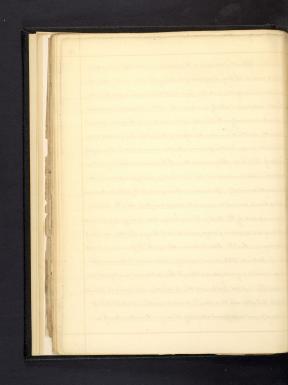


## Remote Cause.

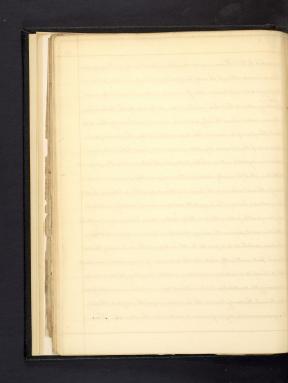
The pratispoint causes, or then circumstances which produce a predispesition to the complaint, are carious. Breeding desears, whether of the acute or chemic kind, render persons more liable to the source, where the existing causes exist; and incelivity and indeline greatly Jacilitate the attack of the malady. Then who are recovering from fevers, or who how been unakened by long attacks or relapses, most readily fall into searny; and the movines on ship-beard, who have less work commonly suffer in a south larger propertion than the sailors. On the other hand, hereever, exufsive fatigue and over exertion, which achoust the strongth, as well as want of steep, contribute to accelerate the attack of soung. In attention to this point, was one of the most effectival means employed by Captain Cook for the prevention of seury among his ones, as well as the according of sold and missture from which much printesposition to the desion wises . I state of despondency and gloomines of mind contributes also materially to invite and aggravate the soung; it attacks the discontinued and refuning, while possess of more charged disposition excape. Hence perhaps newly improped reamen are found to be particularly liable to it; and the inhabitants of besighed towns are observed to be susaptible of its impressions. The principal existing cause of source appears take the use of a certain head of diet; and it is probable that very spices of deet, which, wither



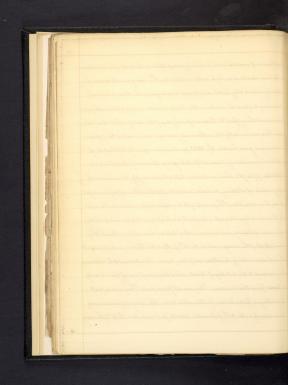
from being difficult of digestion or from containing but little nutriment, fails to nowish the body, is capable of producing the discon under certain circ cumstanus: we say it is probable; for we shall have occasion to show Turcafter, that this notion is not outvely consistent with all the feets, and is somewhat inconsistent especially with the nature of the remedies. In the desean is most frequently oreasioned in modern limes by a sea diet, it has been ascirbed to the un of salled meat; but this opinion is altogether oroneous, and has been amply refuled by Dr. Sind, Milman and others. It has recard, indeed, to a great extent, where salled must were not used; but it has been equally prevalent when the diet consulted principally of Januarous or other unformanted byetable matters, such as hard biscuits, purs, and bears, or smoke divid file or flish, chun Ve. In some experiments much by Do, Stark in his even person, relative to the offices of particular articles of diet, symptoms of securory were induced by living a short time exclusively when sugar. And Dr. Aitesels observes, that in the Rupsian armies at the singe of Asoph, in 1786, and subsequently in their murch to Ocrahow, the seary prevailed to a great extent; although their diet did not consist of salt prowisions. They had little feel to anable them to drefs their victuals, and the fat india gestible fish of the river Don, being half evoked, and their bread ill-baked freduced frequent siderufe, and sellimately the sewey. A similar calamity as



remarked by D. Humer, occumed in the imperial army of Hungary, about the same period, although the army had fresh but in pleuty: but their food consisated of a grafe and visid bread, or other Juinaceous matters, and expicially of a sent of founding, culled Wollalschin which was principally caten by the Bohamians, who were indeed almost the only people who suffered from the soung . There is no dealt, then fore, if we examine the history of the malady, that persons pudis-- posed toit, if they live upon any species of intigestible food, whether it be of and animal or vegetable nature, whether preserved with salt, or not at all impregnated just het. - till be causely attacked with souncy; and then persons an observed te suffer the most who make the frest and there integestible substances. In all there instances, however, Jush vegetable substances did not probably constitute any considerable portion of the diet. Other exciting causes, however, must co-operate with this det to produce the source, especially in its severe degrees. And hence whatever contributes to impair the health, and deput the mind, during the use of such Good, materially accelerates the occurrence of venny; and we have almost stated the effects of indelone, overfatique, and the deferifsing praferon, in pour - disposing the constitution to take on this disease. Indolence and inactivity con -due to excite the secury, because the hard and indigestible diet just alluded to requires a certain degree of exercise to suldue it in the stomach. The



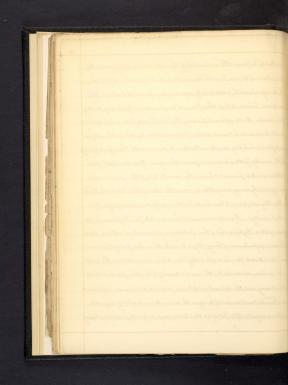
influence of exertion was curiously exemplified in the cases of these persons who have instered in high nothern talitudes. The secury was the source of Tatality which they houl to dread: and it is singular, that there who socut presponed to spend the winter in these from climates, and supplied with provisions, elething, ful, the have uniformly died of the seury; while then who have been accidentally left, without any provision, have escuped that disease and enjoyed good health. In 1193 two trials were made by the Delch, of establishing winting places at Spitebergen on the court of Greenland in Patitude 77 or 78: Seven sailers were left at each, amply furnished with every article of elothing, provision, and utensils, thought mulsary or useful in such a situation. The journals of both companies are preserved. The men at Grunland began to make a constant fine to sit by in October, served out their allowance of brandy , and now and then killed a bear ; but in March they wow all ill of the soung, and on the 16th of April the first man deed, and all the rest were entirely disabled, except one person. This poor wretch continued the journal to the last day of April, when they were praying for a spenty release from their missies. They seen all found dead . They men left at Spitebergen hilled but one for the whole time. The seury appeared among them as early as the 24th of November, and the first man deed the the of Sanuary



the journal end the 26th of February, and there too were all Jound dead. Accident, however, soon afterwards gave rise to an experiment which had a very different result. For on the same side of Witzbergen, and in mary the same Satistude, a bout one, consisting of eight Englishmen, who had been sent ashow to hill deer, even by some mistake left behind, and reduced to the deplorable neigh - sity of wintering in that dradful country, totally unprovided with any of the maparies. Taking advantage of a large substantial exceden building, exceted for the use of the ecopus belonging to the Jishen, they rendered it warm and comfort -able by building a small one within it, and by deer skin buts to. They some tolerably supplied with Just from old cashs and bouts, which the broke up, and before the cold weather set in, they laid in a considerable stock of benison, having helled a good number of deer, the greater part of which they rousted, and stone - od in barrets, reserving some row, which became from This cenison with a Gue sea horses and bears which they willed from time to time, constituted this whole wenters provision, except a very unsavoury article, which they some obliged to make out with, at first two and afterwards four days in the week, which was whalis fritters, or the soraps of fat after the oil has been prefered out. Their only drink during the whole time was running water, procund from beneath the ice on the beach, till Sanuary; and afterwards snow water

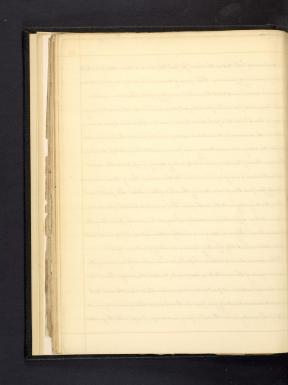


metted by het irons. The melanolidy of their situation was aggresaled by the absence of the sun from the horizon, from the 14th of October to the 3 of February of which period twenty days were parted in total durkness They contribut, however, to keep their fine and lampes continually bearing during this sweed, At the approach of spring, they had the good fortune to hitt several while bear which proved excellent food: and there, together with wild food and foxes which they cought, enabled them to dispense with their fasting days on the snowledy fritters, and soon improved their signer Moon this simple face; without spirit or furnented liquers, they were all to pass this rigorous winter, unaffected by severy or any other disease, at the return of the ships on the 25 of May, they all appear to have been in health ; and all retermed in safety to their native country . A similar circumstance occurred to Jour Rufians . In the year 1749, a Rufian ship of East Spitebergen was so enclosed with ice, that the one appropension of being oblique to winter there, sent four of this men in a boat to suto for a hut, which they former to have been exceed near the coast. The heat was discovered; but the men or returning to the shore, found all the ice closed away, and the ship in longer tibe sun; and indeed it was never mere heard of . Their diet and manner of living on the circumstances preculiarly connected with my subject. After fitting up their hat as comfortably as they could, and laying



in drift wood, collected on the shore, for Jul, they turned their attention chiefly to the procuring of provision . The species of animals, which they cought and helled by various devies, constituted their whole variety of good. These even reindur, white bears, and Jones . This flish they at almost row and without sult; using by way of bread loit, other floor, dried hard in smake. Their drink was running water in the summer, and melted in and survein the winter. Their preservations against the seary ever, sevallowing raw freson meat broken ento bits, drinking the warm blood of winder just killed, cating sound grafs, when they could meet with it, and wing much exercise. By then swans three of them remained entirely few from this disease, during the whole of their aboute. The fourth deid of it, after linguing on to the virth year. It is remarked that this person was of an indelent disposition, undecould not conquer his accession to dunking the reinduces blood . They were strong and healthy at their return, but by habet had contracted an inability of eating bread, or drinking spirituous liquous.

Other arouns tances, both on slop-bount and on land, by impairing the general vigour of the constitution, conspire to produce the source. Musich has been observed endemies at particular places, while other, when the same duck was next remained entering for from it. It is observed, that universally in all parts of the country, where the will is Jung and damp, it eags with the genetial



irclence; and that the weather has quatinfluence upon it, entholy windsif long continued, multiplying the disease, and rainy seasons rendering it quite epistemic and malignant. The effect of certain depending propiers, not only in predespering telle seeing, but in exciting and aggravating it, hasbeen strongly manifested . Vander Mye exhibits a curious and diversified picture of the operations of the pressions of the mend during the Jamous singe of Brida, when the seeing committed great have in that town . Upon the report of bad news , it always spread astonishly : but it was in a manner ultogether chicked by the arrival of agreeable intelligence. And the conter of lend Ausen's cogage channes, This design is tekenin usually attended with a strange dejection of the spirity, and with shiverings, trendlings, and a disposition to be sixed with the most duadful tremers on the elightest accident. Indeed it was most remarkable in all our rederated experience of this malady that whatever dissouraged our people, or at any time damped their hopes, never Jailed leaded new eigen to the distema - per; for it areally hilled those whe were in the last stayes of it, and confined then to their hammonts, whe even in weatour stones of so fafore capable of some Lind of duty; so that it seemed as if alocaty of mind and sanguine thoughts were no contemptable preservatives from its fatal malignity."



Prevention of Seury.

It is customary after stating the symptoms and cause of any disease, to present to private set the presented course, of the male of figures the continue of the motivate of course, which should generally be detuned Jean the course, when it should get the words of the warmaness to the logs there. In this case, however, we can county disease the warmaness of the presentation of the presentation of the presentation of the sentence of the unions by which the malenty is presented or resemble the malenty is presented to resemble the malenty of the symptoms which they remain the short then feel, first about the minus of presention and there.

The freeworten of severy with conied schiefly in unweinger tean tweating the pudsipoints and existing course, which have already been enumerated allush is done, then fore, by presenting a due again of general builth in the individuals expends to the centing course, and expeciably governing add and ministers, by means of proper alcelling, be; and by avending indiction. The effect of the Jerman can be add every facility, each by avending indiction. The effect of the Jerman can accomplete and cover foliques, each ling. It could also also effects in the comparative exemption of our the petty of press in a close of many that the course suffer executy. The channel fluid our free all the many who of the man and course, and had a theorement severe afflicited with our grant among and gut among then their best and been a full of fiver

How does the condition of the petty officer from that of the common sailor? The one as well the other is obliged to live on the ships provision. They only dif-Genera is, that the petty officers steep in close boths, as they are called, with curvafs hung around, by which they are shellered from the inelemenies of the weather. Besides the advantage of warm cabins, they are more wormly clad, and having a greater plenty of elether to shift, they are leptiable to centime wet, or to be se unclean as the common men? But the vicinity from soung obtain ed by attention to thou points of general health, was most stickingly manifested in the judicions management of Capitain Cook, by which he was weatled to repeat the voyage, in which the venny had proved so fatal to lood Anson's crew, without ling dry men by that disease. The great navigator studied and inferred the rules of gencrat health with great a friduity, and his weafs sens complete. Hewas expecially careful to quard against the toe great fuligue of his men, and to seewe them as much as possible from the effects of cold and moisture. In the first place, he divide and them into three watches instead of two, [except upon some extraordinary oreasien] by which means they had eight hours rest for four of duty, and did not get the broken sleep, which men in their setuations have generally obtained, They had thus time to recrued their strength before they were summoned to return to their labour, and they were likewise thus lep exposed to the weather, than if they had

been at watch and watch. If the men get net, they had generally any aboles preweter to chieft then earlier, Subservent had seen taken to keep the ships along and
any between deeler. The hanneeles and ketsing very any top that and fair, were seed
and general refer their, but such beards was underlied, and we igned out, that
every pack might be expected to the arch. Theritis the verticary methods of searching,
and susping the deeler. Captain Cock had some wood pad enter a furger, store,
therethed and carried such is Captain Good had some wood pad enter and early continbuted leivery the chip, but by furting the inform any below been and respectively it
specified to be when the comment are termedy its in any pape through thus
but thereone suite the advantable comment is to make and pape through the
the searching year, by an awaying one his deet; while on his course senter the
antimite wind, In Just a coal provided of a substantial weeller steff, with the
addition of a hood to cover their kinese.

Captain Lock als attented to the undivined of his mun. Mandand ented a meat eigenic africtance on their selection and digestion in the stomach, and a plantiful supply of seater was always conjudy provided by Thim. Introduced instantancy hiremands aund by shelitlation, which deprives it of its value pouts and may be made more palatable by impayment on with Carbonic acid gas, or with add and acid prices. This millest, however, over met howen to light in books.

In attending to the dut of his men, he would not suffer the gat, which is boiled out of salt but and port, to be given to his men, as is customary. It did not escape that sugueious officer's notice, that such groß indigestible matters had a great lendency to excite soundy. Thus then by an attention to clean--lines and ventilation, by quarding against fatigue, cold, heat, wet, St, and by providing at all times plenty of Fresh water, captain Gooks scame whoit with impunity on their salt precisions. And a similar instance is mentioned by Di Forther in the case of the Interpret, a ship of risty Jourgens, with a complemost of fine hundred men, in lord Reducts fleet, which did not lon a man, except from evounds, for the space of lear years and a half. Whis ship your in a very sickly state when Captain Molley took the command of her, but by the complete mode of descipline, and attention to the cleanlings of the one and ship, which he established, health was preserved in a climate repealed to be unwholesome; and that tre, when report to the hardships which follow a state of Juguent or constant preparation foraction? Even when the exciting causes exist, then for the sound may be presented by extra ordinary and contimued descipling in the cure of the general health. Something still further, has been altempeted, in the way of prevention, by diminishing the extent of the chief existing cause; although it may be questioned whether much

has been effected in this way . The Dutch were supposed to have preserved their seamen from soung by the use of sour brout with their salt provisions, and this article was recommended to the British navy by D. Lind: but it is prepared by a vort of formentation, which produces the acidity; and this sort of acutous acid, the product of Jermentation does not appear to be a substitute for the raid of fresh regetables. D. Norther, however, is of opinion that the wirtues of this substance as an antiscorbulic are very trifling, and that it has cost the British government in its preparation more than it is worth. Another sub-- donce has also been employed in the British fleet, as a substitute for fresh veg-- stables in preventing source, on the ecommendation of D. M. Bonde, is, the of sever or extract of malt. Hever recommended when the hypothetical notion, that it contained much of the cementing principle, as he called it, or that principle, as a called it which, when present in animal and vegetable substances, prevent the proup of putrefaction; and that by restoring this principle to the blood, the diseans, which aire, like seway, from a putied dia-- thesis, would be prevented and ound . The truth however, is, that there is little or no carbonic acid in this substance; and the favourable accounts received at the admiralty of its beneficial effects, which indicat them to establish the un of the exerce of wort as a part of naval victualling, are to be a scribed rather

to its being a wholesome, nutritious, and digestable substance, consisting principally of regetable mercitage with some sugar, than to any specific antiscorbutic properties. This appears to be the opinion of Do Norther; and Do Lind speaks of it only as, "a very nowishing liquor, well adapt -tid for scorbutio patients." The following is an excellent mode of prescribing the malt in substance, when evanted for use, it is to be ground in a hand mill, and the infusion prepared from day to day, by pouring three measures of boiling water on one of the ground malt; the mixture being well mashed, it left to infuse for ten or levelve hours, and the clear infusion then strain--oil off. The patients are to drink it in such quantities as may be dum -ed neafsary, from one to three quarts in the twenty four hours : a panenta is also to be made of it, by adding bisouit, and currants or raisins; and this palatable met is and by way of solid food. This course of dut, like that of the recent regetables, generally keeps the bowds sufficiently open; but in cases when costinents neverthely preside, gouth laxatives must be interposed from time

Analy lessed spence has same from a direction of the type of the Spence. For and metapies is an excellent italimetative ideals with same way that the and dais, and aid to Gamen of equal officing, and therefore may be arbitisted.

Where the tops of the spruce-fir are not to be had, this beer may be prepared from the opener of spruce and has been called, an article which kups early for a great length of time. But in situations where neither the one nor the other can be had, a most salutary mel may be prepared from Catmeal, by inferiory it in water, in a soveden refel, till it Jerments, and begins to line sounds; which gene corally happens in moderally warm weather, in the space of two days. He liquor is then strained off the grounds, and boiled to the consistence of a jelly, which is to be calen with wine and sugar . When the malt , spence for to , cannot be pro -cured, expecially on board of vefels, Thergeon Thompson accommends as an excellent substitute, the tread bour, or hope-bur, and for which purpose he recommends that a quantity of hops and melafres should be taken on board of ships, which are tikely to be long without reperhment; and from there a lique not only extremely rated only but pleasant may be forefreed at one with very little trouble or expense, by boiling the perpertion of 10 pounds of hops, to 288 gullers of evalor; and adding one hundred wight of molapes, when the decedion is sufficiently cool. They should be well stimed loyether, then turned into cashs, a little year added, and left to forment. He also speaks of section in the highest terms as a preventive of severy, and relates the happy effect, it preduced in the one of the Jugate Hickmond, who were afflicted with this disean. " He did not love a man for a fortnight after

the new of the pertiry exhick areast be alterbaled anxiesty to the salesting eighness of that begins. The mether for some time before, new after that point lid a weak proposed him he are, two growing, lighters beek had also a break and a surjepty of pertodo peur, of solice had a series there are perfectly an owner, there suggest the week, level soy with their pear, and sometimes of seas sound to them of the seast, level soy with their pear, and sometimes of seas sound to them of their seast, level soy with their pear, and sometimes of seas sound to them, and seast so make a sometime to the seast of the season of the pearly west of the season of his pearly west a great of great great of great of the season of the pearly west of the season of the sea

Then is another opinis of orgatally matter, burner, so hich appears is seen manower to expert the particular substance, which Goods against is not as a few and only and which is next both as a provention, and a case for the sounce, manuly, the acids of times, benous, and other semilar fruits, which the art of obscisions has for some time expected as an consenter state. These intravals we believe an over are now onesestend as among the unificacies for a long organ, and are probably much more officient than the sew-bernes, four of matt. Go.

Cure of Seury.

When the preventive measures have been neglected, or ineffectually employed, and the disease has already appeared it is very difficult to remove it, while the cucionstances of diet, be, remain unchanged. When these circumstances, however, admit of a change, experience has shown that the care is very simple, and often very expeditions. A pure, dry, warm sir, with the use of fresh vegetables, almost of any sort, commonly proves effectual. The instinctive Julings of the sick, indust, demet them strongly to the ser of the shirt senerly; for there is perhaps nedesire so intense as that which the serbutic patient feels for the use of green vegetables, foul, and acids; insomuch that the sailor of land Auser's ship greetely decoured the grafs, which was the first orgetable matter diained . The orgetable and fruits which contain the greatest properties of acid, are the most effectual remodies for the symptoms of sea seawy; whence some and such like plants, but above all lines, lemons, oranges, apples, curants, to. Act in a manner as specifies in reliving this design. All succelent vegetables, and then especially which are of an aromatic nature, are unful, particularly when combined with the aid ones; whence rown--grap, here radish, crepes, and peers lain, are ranked among the Untiscorbuties; and numerous plants have been specified by different writer as properfied of special virtues. On the whole, however, the acid juices appear to be the most

speedy and effectual remedies for seury, especially thou which approach to the nature of the citic acid. The testimonies in Javour of the specific oura--tire powers of then acids in scurry are somemorous as to love nodouble the Jack. Com Do Lind, with whose hypothesis expecting the nature of the disman the fact was not quite compatible, admits, in his porterist, their stating office eacy. To what has been already said of the virtues of oranges and limons in this disian. Have now to add, that in sumingly the most desperate carry the most quick and unsible relief was obtained from lencon join; by which I have relieved many hundred patients, babouring under almost intelerable pair and affliction from this disease, when neether remedy sumed to avail? He also mentions, that the Terror juice when given by itself unditated, was apt, expecially if overdond, to have too circlent an operation, by occasioning prair and suckness at the stomach, and semetimes a comiting; then few found it neefs any to add wine and sugar. A Junt of Modeira wine, and tice cunes of sugar, were put to Jour ounces and whatf of juice, and this quantity was found infficient for weak patients to use in ternity Jour Lower , wich as were wate sipped a little of this Joquently according arthur strength would furnit; other who were stronger took about two owners of it overy two hours: and when the patient grew still stronger, they ever allowed eight owners of lemon juice in twenty four hours.

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While this very pleasant mixture, which is both a cerdial, and an Untiseptie, may be had it would be needless to think of presenting any other; but when the Just juice cannot be procund, we must have recourse to such other things armay be obtained . But the various medes of combining and administering there, so as toxunder them perfectly agreable to the stomuch, must always be regulated by circumstances, and therefore it will be in vain to lay down partie--ular directions; since all that we have todo is, to fix on such fruits and other Gresh vegetables as can be most conveniently had and taken, and continue to give them in then forms, either alone or boiled up with flesh-meat into vours, that will allow the pedicul to consume the greatest quantities, D. Follor testifirsthe extraordinary own of then perbutic symptoms by the use of these acids, even though at the same time they produce a very law or purging state of the bourt, and some degree of emocration; while on the other hand, the we of fresh animal food, strong boths, and wine, produces comparationly very little benefit upon sewbutic per sons, although debility is the most marked symptom of the desease, This diet and the Semeran back will often produce ne favourable change upon scorbatio seleny, and the most powerful stimulant applications will not alter the condition of these sory : get in left than twenty four hours after the un of lemen juice, the lived com-- pleasin of the veres, with the black clot of blood on their swafer, will often disappear,

and they will just on a flood and healthy character. The Jarther effects of the limon acid are thus described by Do Norther. The patient in the investigate stage of the desease seems to gather strengthe even from the sight of the fruit; the spirit are exhibitiarated by the taste itself; and the juice is swallowed with omotions of the most voluptions beary. The gums are gradually hardened, and the teeth find in their sockets. The dull age and bloated looks in a few days part on the clear healthy complexion, which also extends to the whole surface of the body. The absorptim of the effund blood in different parts goes on safridly, and by marking the spots, you may calculate the progress of the absorption, and the own of the discon. This absorption bespeaks a degree of stimulus communicated to the hympotatic system as well as the sanguiferous, as soon as the blood has received a sufficient quantity of the verifying principle Thom the effects of the juice upon the bile, the colour of the stool is changed, and a las state of the lowels is the consequence. But it is to be observed, that this lavily of the intertines may be moderated by giving the fant in smaller quantities , a spenty cure, however, demands that they should be given ad libition, and the qualis the number of limens taken in a day, the according will be mourafied in proportion." While on the on hand, these fresh regetables and regetable acids speedely remove the symptoms of seeing, experience has July ascertained, on the other, that the medicines called tonies, such as the

secured and, stal Immin bock, and the arine sugstall better, which has also been considered as the tiespeties, a antistate of puter faction, are immpable of affecting any official a ties. And time, which has been found a colorable see some law from your being been a momentury stimulus, but it does not a tank the decime, never flood any permenent whis along stimulus, but it does not a tank the decime ane of flood any permenent whis along along. It was along forward, his, in last abscinis flat and elevabor, that abundance of flood permenent flat and the white along the permenent flat people of the second fish, even author people of the second permenent which people of the second second fish, as a second flood of the second second

Sen speaking of the predictioning course of seary, we have secreticed the effect of the defending propiers in inducing and aggreeously the stenar, and eve leaves seen teaching proficers see which the varieties of the person and the existing proficers, so witing the vary of the decare. The following strike ring example of this sections of the minut is closed by lander they are his account of the decare, when it occurred during the sing of Breder, spreading despair and teath around. On the Bifellay 1825, when the prince of lowing the same of this disting, and understood that the city season danger of law gets best of this this enemy by the surface of the section addition to

with medicines against the sound, said to be of great price, but of still quater officery: many mon were get to be sent. The effect of this decit was truly astonishing! Three small pehials of medicine even given to each physician, not enough for the recovery of two patients . It was publicly given out, that thew or four drops were sufficient to impact a healing inter to a gallon of liquor. He now displayed our wonder working balsams . Nor were soon the commanders let into the seent of the cheat put upon the soldies. They flocked in crowds about us, every one soliciting that part might be reserved for their use. Cheerfulness again appears on every countinance; and de universal faith prevails in the severing writing of the remedy. The harby now began to spring up above the ground, we of these made devetions, to which worm word and Campher when added, that by their prevalent flavour the medicing might appear of norman efficacy. The slift contracted limbs were animated with war medled in rape seed, or linsend al. The invention of new and untied physicis boasted; and amidst a defect of very meetary and weful medicine, a strange medly of drugs was compounded. The effect, however, of the deterior was wally astenishing for many core quickly and perfectly recovered. Such as had not moved their linds for a month before seen soon walking the streets sound, upright, and in project health. They brasted

of their one by the primas semety; the motion of their joint being actual by a complet friction with oil, mateur more of itself sects perferning sty office, or at land worth a small africtories from mateiner. Along schoolselased that they had been resulted govern by all fermer resulting schoolselased that they had been resulted, every by all fermer resulting schoolselased that their materials and in a fine day; it their major frille, joy, and the notificant supprime by the taking calment by their having brened to be their agreeins friends) were

Many remedied have been meatimed by different uniters, who have treated of securing and meany local applications, and methods of our in particular expent symptoms, such as Teamen larges, spengy genes, ulcombins, sharehear alifficilly of the linders, ble Suarchear alifficilly of the linders, ble souteal air if you all of the ends of the ends of the control with med of the control desired air of the ends of the souteal division. It that whereas that, "Journal division, the comments, but without offers, shimulant applications have been agreed by ensure actification the difficult beauting and lighten to be not the difficult beauting as and the what the beaut, blastess and the what the difficult beauting are in inflicial to what the beaut, blastess and the what was only pages in other ones, of a cut pain, affects we refreshing slips or soon to the sembolic sufficiency. He have have much of sentencing is

The state of the s

of using the pure of the skin and entering the surface; but this is trifling seels the complaints. It is only the produce of Just superinten, that cannot amount to be sure there is viving content; and a Just immor will do men to, a funge his augusta then the school out of phoromory?

Deex male Cause.

Nation begins have been framed at different lines, according to the present of the planet pathological distribus; to account for the planet in higher this seem - yelve and from the frame this pain they have beinged chiefly upon the prenciples, by med scheen they are spend town town mobile contitions of the bleed to circulating fluid, and by the other to media changes in the property of the living select. If we take into comments, we should find the property of the living select, I was mediated in the second of the living select, the whole, planet indicates, we shall find consistently about a little in giving any satisfeeting view of the subject, our by altering the justical tentr of both.

All the old enters, being of the humaned school, succertained the declaim of a smobil state of the flinds, as the proximate course of searcy. Decohaars and his subservent) se found the traverse to an assuming of the fluids, which they imposed would be of a different quality according be the different course which

preduce it; thus it would be an alkaline arriving from salt and putrid provisions, and Jul water, and an weit arimeny from bod sorts of bread or vigetable gluten, combined with a sestentary life . Do Cullen, tee, though he relinguished much of the humand pathology, was of opinion that scurry was the offect of "a proter--naturally deline, and consequently depolored state of the blood estick was occasions -ut by a greater advance towards putufaction, from the absence of the correction of orgetable matter. And ver John Bringle, maintained a semilar doctione that seary was the usult of gradually accumulating puturaction" in the blood, from the putureency of salled food, which he deemed the chief cause of the disease. In fact, the general opinion, for a long time, deemed source the most characteristic example of a feutied disease. And this feutiedity of the fluids was inferred from the feter of the breath, and of the ulers; from the black colour and loose consistence of the blood; from the extensive humanhages, from the peuple blotches, on the skin, It. But this is a gratuitous and eneneous infor - once: from we have no lep authority than that of D' Lind, who made numbers experiments on the subject, for a parting that blood drawn from the secolution pratients, even in a deging state, deserves in sensible lest of either acrimony or prestrictly, by the taste or small; that the sound of such blood is as tartoless, as the white of an egg, and without odeur; that it compete in the air nessoner than



the blood of breakly persons; and that this select of medias of media, a moursel in this screen, continued secul and fee from elects of persons, as but server of free from the state of fee from the first amalish greatly of putifs males be expected into the blood or first it is effected into the blood or of the entire of ferm the blood or need participant to be some offered or the first of the course of fermes or health for more effected in the said of free courses of fermed the said of the present is health for some may be said of the state? The course experienced physician firstly observed, "the efficience and the course of ferme the menth of excelute persons, soher above, cause to present sold from the compt state of the genes. For one the stad bodies, however, we had any conseal made of participation; they were seed or the man efficience, we listly form the compt state of the genes. For one the stad bodies, however, we listly seem as the course of participation; they were seed the man efficience, we listly the course of feet of the genes.

Can me necessal, thus, for the phenomena of conveyapon the delice before these subsets assisted to surface the surface the surface the surface that we wind of the surface the content of the surface the surface the content of the surface that the surface the surface that t

munute detail of the symptoms, with the view of explaining them whom the principle of a weakened and impaired condition of the nervous system, and of the muscular imtability, This has been accomplished at great length, by Do Milman in an essay on soung and justed feers. This view of the subject appears to accord better, on the whole, with our knowledge of the predisposing and exciting coursef the disease above detailed. The commens Trinds of dut, under which severy occasionally originates, is ill calculated to produce any particular accimony of the flinds; and the dry putse and glutinus predding of the Bokemians on show could not have the same tendency to pertufor tion as the salled animal diet of seamen . Yet all the substances might equally fail, from their indigestibility, or from the defect of nutritions matter which they contained, to suffer the strength and vigour of the moving files, and would equally contribute, then for , to preduce that languer of the vital powers , which is so conspicators in the progress of secury. And all the putisposing cours, on the one hand, which are principally debilitating causes, Jalique, indelence, want of sufficient slup, cold and moisture, and the means of presention, on the other, which are such as support the general segour of the constitution, moderate exercise, sufficient deep, Jest air, warmth, to concer in coining the state of the moving Tibro to the source of the merbed sympetoms. The same opinion is also Jauther supported

by the extraction of enfluence of mental enjoying, in protecting and in proonling or away the dinare. Thereinpropies cannot sectionly change the him
wind entering of the ifficing but their influence upon the lain great, through
the mentains of the fluing but their influence upon the lain great, through
the mentains of the necessary stem is maniful took with interference it is
again that unhaved parent with examp and it. The discharge of last from the
relaxed and enjethed explose of the sepect, the familing and even dying on
the dighted earlies, the despecial multing, the laborating lands, the opporprior
about the land, the oppose to be the semile of deminished disciple is at the
much, and of enfelled action end to be right, the consequencies of a general

Such then destrine of steinant while perfective was that of account and analogy, schick the destrine of steinant while perfective was that of accounts and pater - Justim with Julius. Securify this theory is her means satisfactory edis on some manner ended investible with the med striking and well according on the fact, that sanges well overally by their means which appear to contribute on general to the stringth and activity of the solute, seed as Just amount food, wing back, songs, by while it is specify and activity armond by them of operable accides while contains meantailine quality, and are so for sixtille of constains.

pewer, that they even induce emaination, while they care the disease. In tenth as can give in exist factory though of this disease, but one people in efactory attending and one knowledge of the means of presenting, may fairly impaced, all layothers so pour the subject. In this case in attach a disease, separative and clausation are the only quides which the justices of processing sull follow. The visit action commands of the wick from the streams covere of whis, as hunger and third land as to Jeneral disease, and the stream and of personal disease, is carried, and to bear a surfaced, that by greatifying these surfaced that disease is carried, and to bear a surfaced, that by and in pasting the surfaced the disease is carried, and to bear a surfaced, that by and in pasting the surfaced presented them occurring.

Defen two concluses, humans, evening be allowed to notive on theory, to which inviten channely has given view, but which appears to us take ye injuspelly developed as there is which on leave allowed a structured a semistace opinion. It is a society for an arise to prove a semistace opinion. It is notificially and year opinion of the acceptable levely and green without an employee the semistace opinion opinion is to be acceptable, the acceptable levely combined on the acceptable freely and green are such and the aminest substances, but also in the facility and other animal substances, but also in the facility and other animal substances, but also in the facility facility of the property of the substances and also in the facility of the facility of the substances of the substances and the law engages among be the remote for the substances of the su

disease . This supposition, Do Trotter considers as further confirmed by the blacking of the blood discharged, and by the speedy change to the Glorid hue, which the Jungons alwations aframe, within a few hours after the acids have been administered. Hot it is well known, that such a change is always the result of the contact of oxygen with the blood, and that it takes place requi-- larly in the lungs, during respiration, the black blood of the views being conver--ted into flored arterial blood by that proceeps. There is some plansibility in this view of the subject; but it affords no means of explaining the concourse of the symptems, and does not lead us to any constitutional expedients for the oure. This gentlemen, brings to a conclusion, what I have to say on this subject. It being menty a brief description of the disease in general, with the cause, our, and nature of said disease; as procund from the various authors on the subject. And should this attempt, being in compliance with a xule of the Unionity, mut your apprehation; that will amply compressate for all the time spent, and labour bestowed.

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